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| Notice of Allowability | Application No. | Applicant(s) | |
| | 09/897,790 | STANFORTH, PETER | |
| | Examiner | Art Unit | |
| | Nick Corsaro | 2684 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the paper filed 08/18/2005.
2. ☒ The allowed claim(s) is/are 32-34.
3. ☒ The drawings filed on 29 June 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

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| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____ 7. <input type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
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REASONS FOR ALLOWANCE

Allowable Subject Matter

1. Claims 32-34 are allowed.
2. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fails to teach an ad-hoc radio system with a series of remote radio terminals each comprising a radio transceiver and a control processor, said control processor comprising software means for determining a routing path of a call, for communicating with other said radio terminals, and for establishing the respective said radio terminal as a hop for other said radio terminals during a call-connection; a plurality of gateways, each said gateway being in operative communication with at least some of said series of remote radio terminals; a gateway controller in operative communication with said plurality of gateways, said gateway controller comprising call control and routing means for directing calls to a destination, and interconnecting means for connecting said series of remote radio terminals to external network, whereby originating calls from a said radio terminal may be directed to a destination serviced by the external network and calls originating from the external network may be directed to a said radio terminal said call control and routing means comprising routing information means for directing an originating call from a said radio terminal via a said gateway to an external network, and for directing a call from an external network to a said radio terminal via a said gateway; and a plurality of wireless routers operatively connected between said series of remote terminals and said plurality of gateways for wirelessly interconnecting said series of radio terminals and for wirelessly interconnecting said series of radio terminals to said plurality of gateways whereby

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said remote radio terminals may indirectly communicate with each other and said gateways through one or more said wireless routers.

Van Valkenburg et al. (6,775,258) in view of Rautiola et al. (5,956,331) disclosed an ad-hoc radio system comprising a series of remote radio terminals each comprising a radio transceiver and a control processor, said control processor comprising software means for determining a routing path of a call, for communicating with other said radio terminals, and for establishing the respective said radio terminal hop for other said radio terminals during a call-connection, at least one gateway in operative communication with said series of remote radio terminals, a plurality of wireless routers in operative connection between said series of remote terminals and said at least one gateway, a method of connecting a call from a radio terminal of the ad-hoc radio system, comprising: routing the call to a said radio terminal via a said wireless router; relaying the call from the said wireless router to said at least one gateway; connecting the call via said at least one gateway to another said radio terminal.

Therefore, VanValkenburg and Rautiola disclosed the basic ad-hoc network with a connection to other networks, however, failed to teach a plurality of gateways each of said gateways being in operative communication with at least some of the terminals along with a gateway controller in operative communication with the plurality of gateways, said gateway controller comprising call control and routing means for directing calls to a destination, and interconnecting means for connecting said series of remote radio terminals to external network, whereby originating calls from a said radio terminal may be directed to a destination serviced by the external network and calls originating from the external network may be directed to a said radio terminal.

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Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nick Corsaro whose telephone number is 571-272-7876. The examiner can normally be reached on 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay A Maung can be reached on **571-272-7882**. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Nick Corsaro

**NICK CORSARO
PRIMARY EXAMINER**

Primary Examiner
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